

The  $\mathcal{H}^1$  norm of  $\mathbf{u}$  is defined by  

$$\|\mathbf{u}\|_{\mathcal{H}^1} = \left( \int_{\Omega} |\nabla \mathbf{u}|^2 dx \right)^{1/2}$$
 and the  $\mathcal{H}^{-1}$  norm of  $\mathbf{u}$  is defined by  

$$\|\mathbf{u}\|_{\mathcal{H}^{-1}} = \left( \int_{\Omega} |\nabla \cdot \mathbf{u}|^2 dx \right)^{1/2}$$

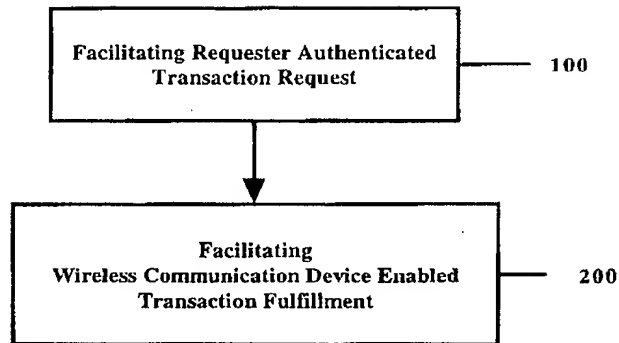
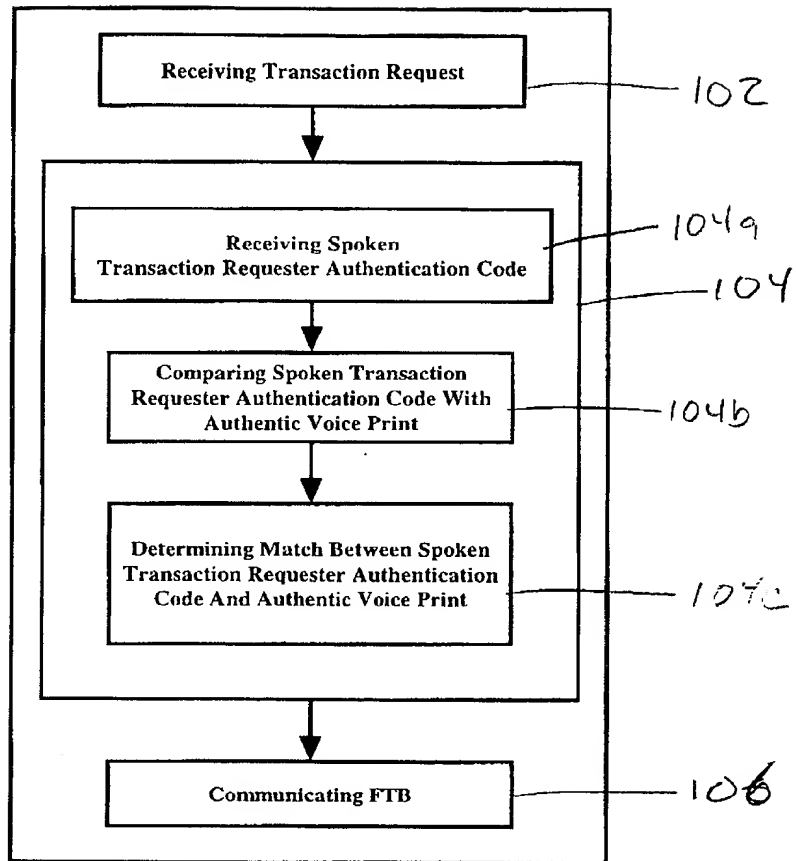


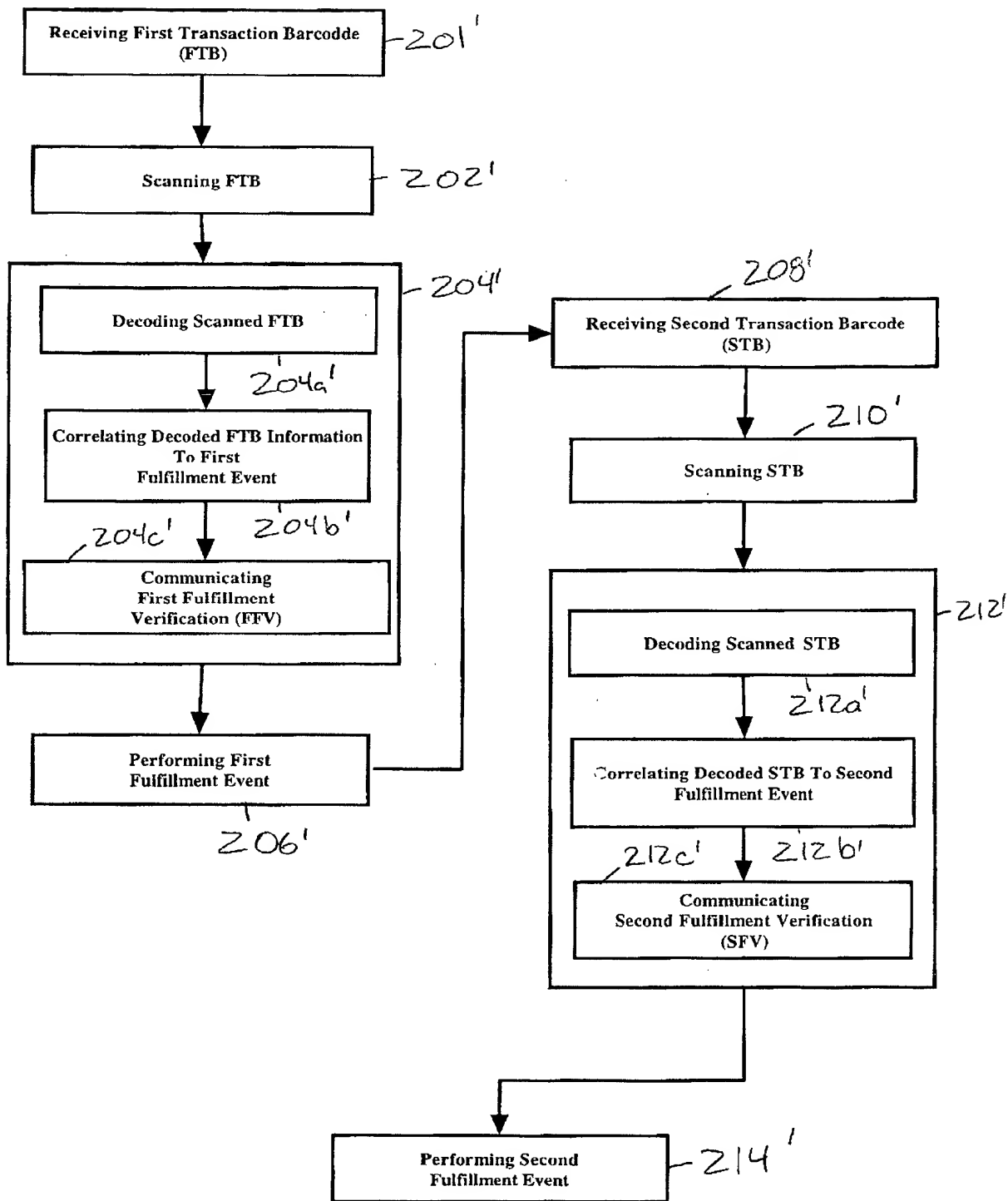
FIG. 2



**SECRET**

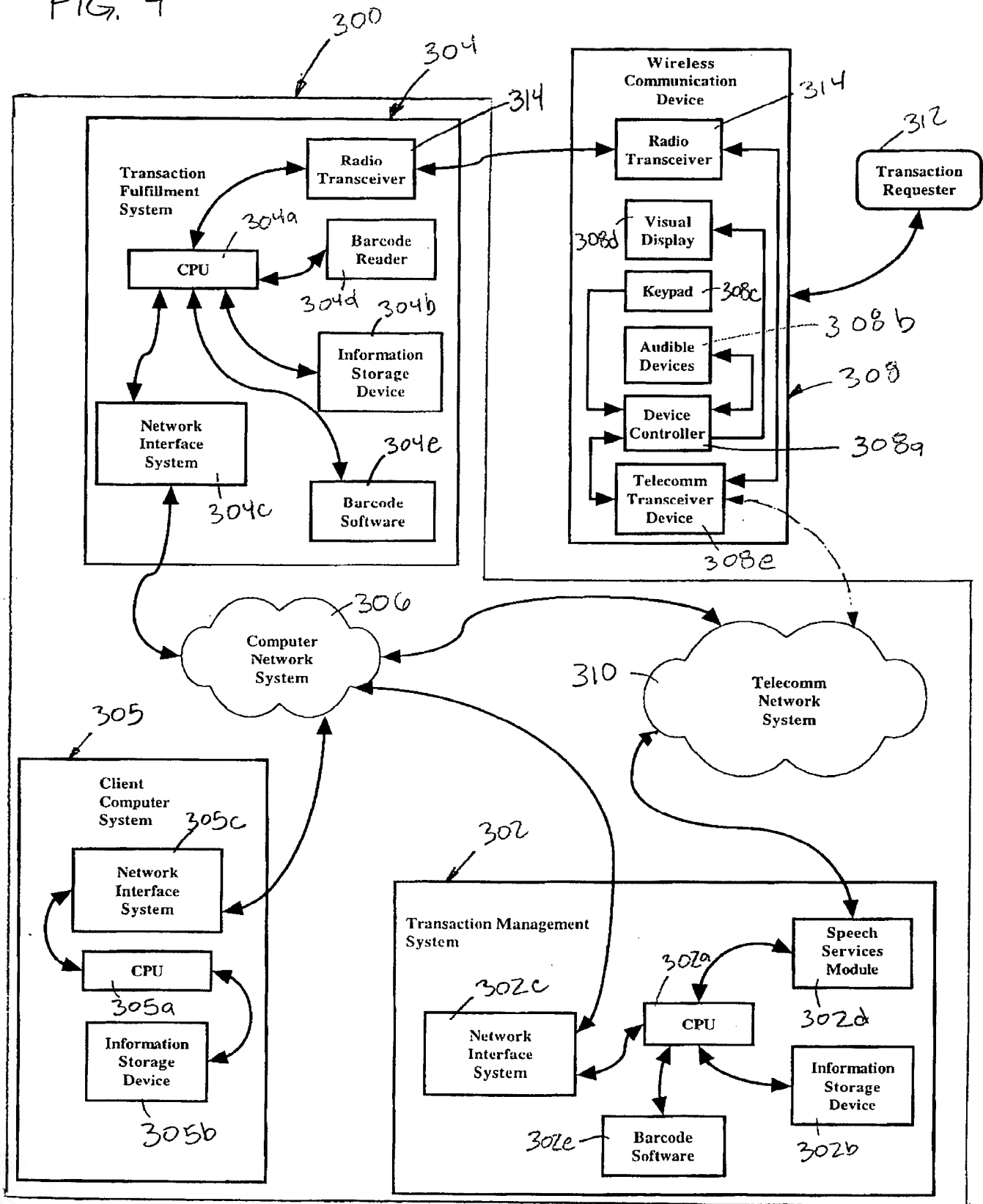


FIG. 3B



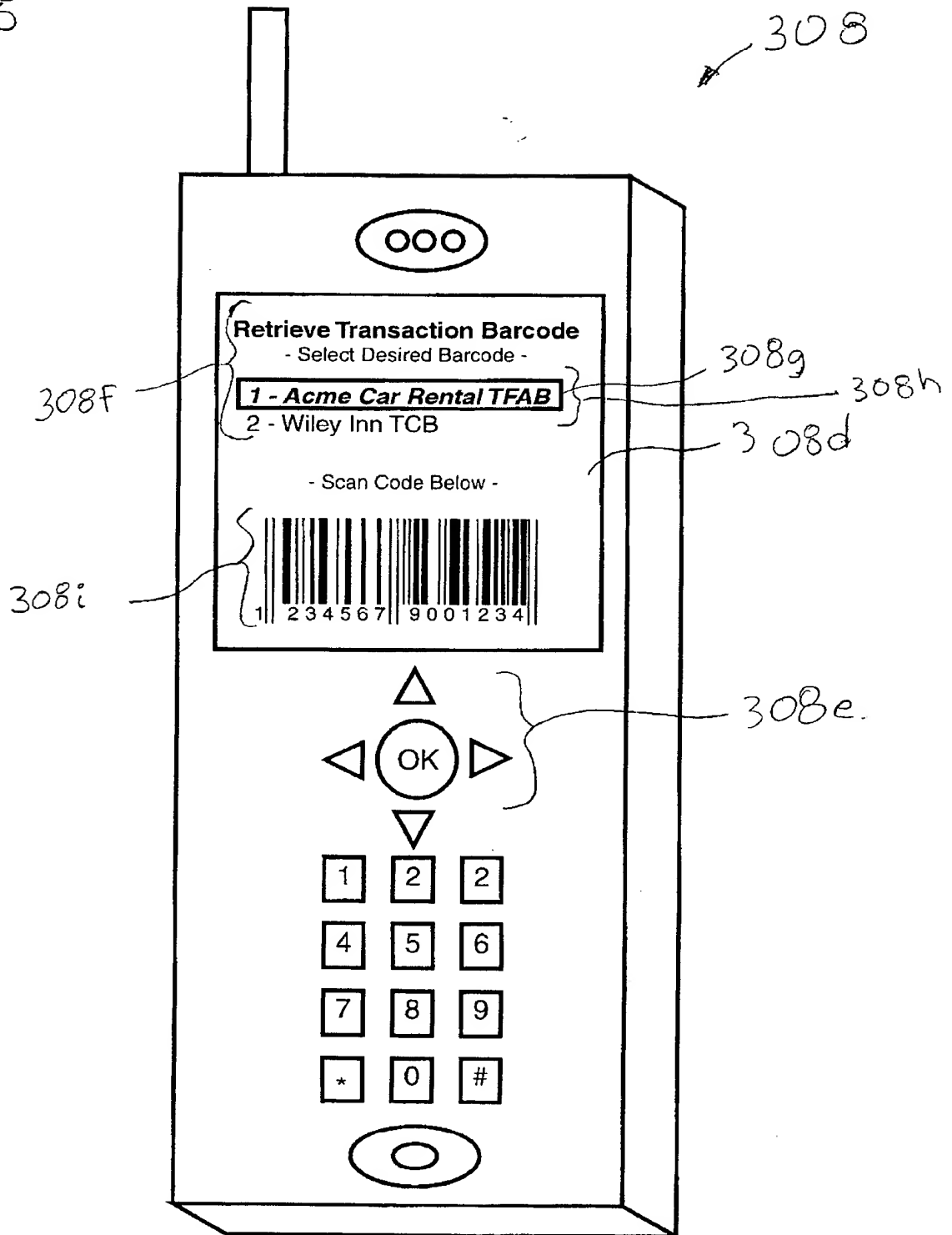
00560342 404700

FIG. 4



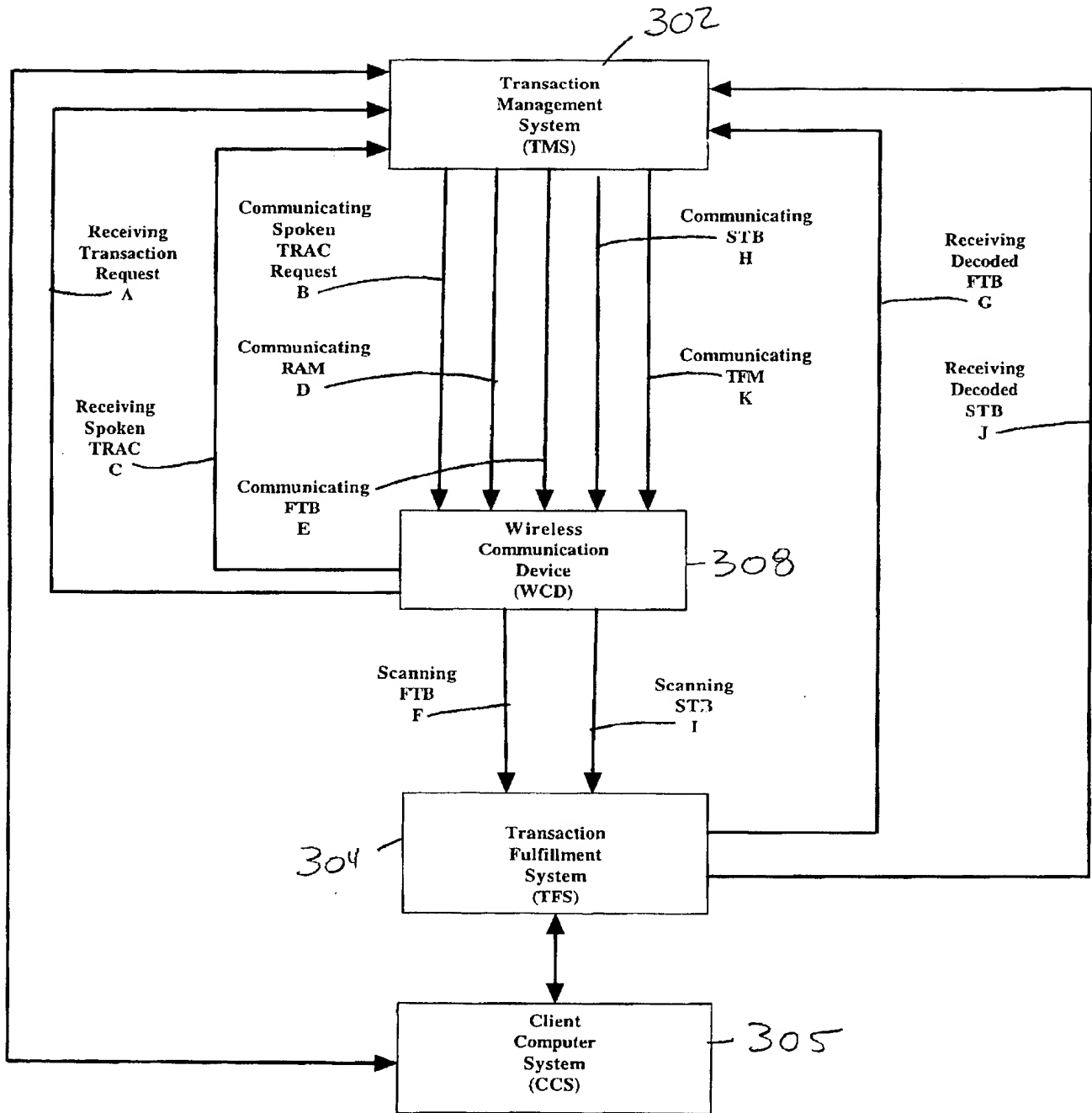
002404 04200560

FIG. 5



0020212 101700

FIG. 6



09500212 104700

FIG. 7

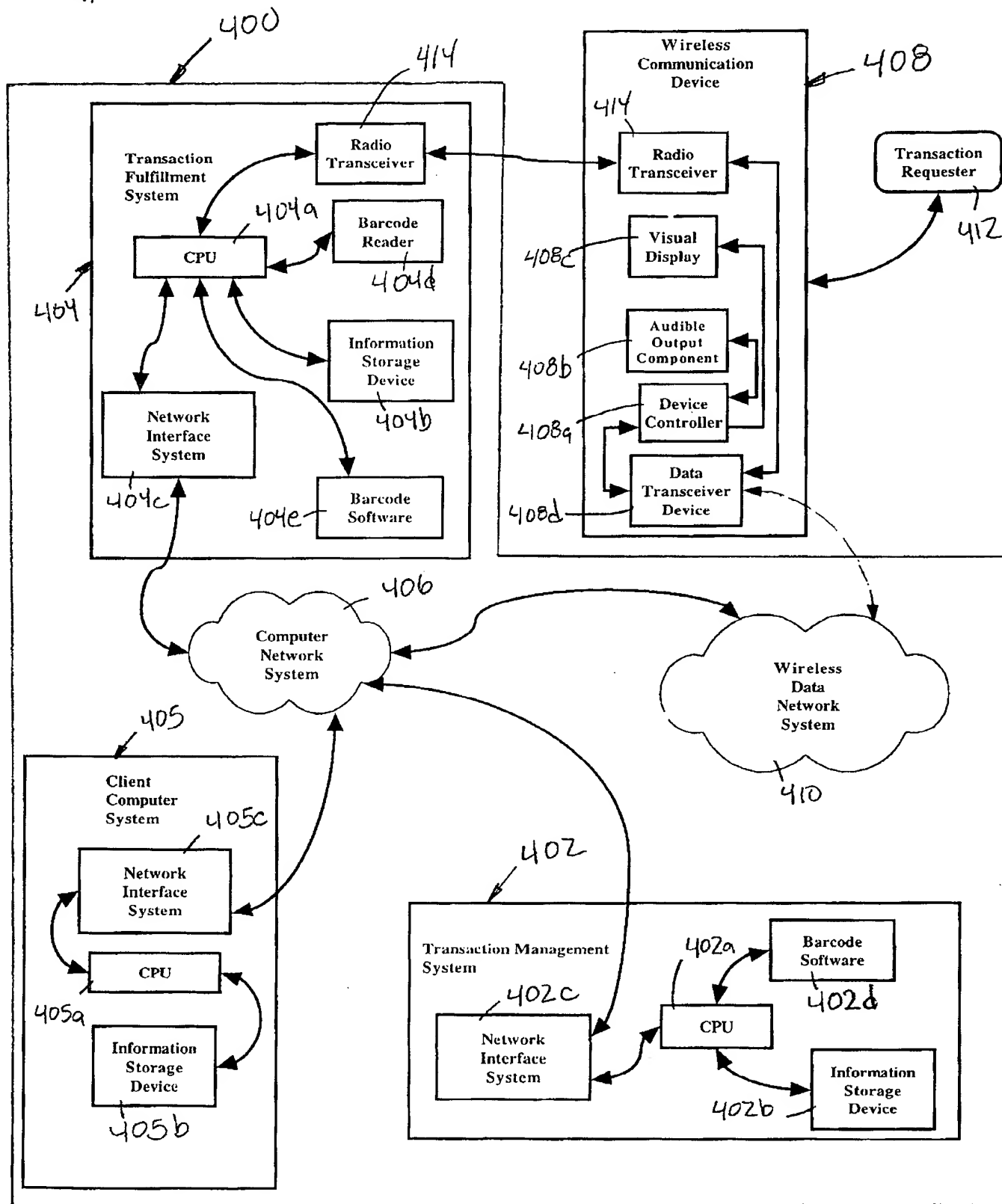
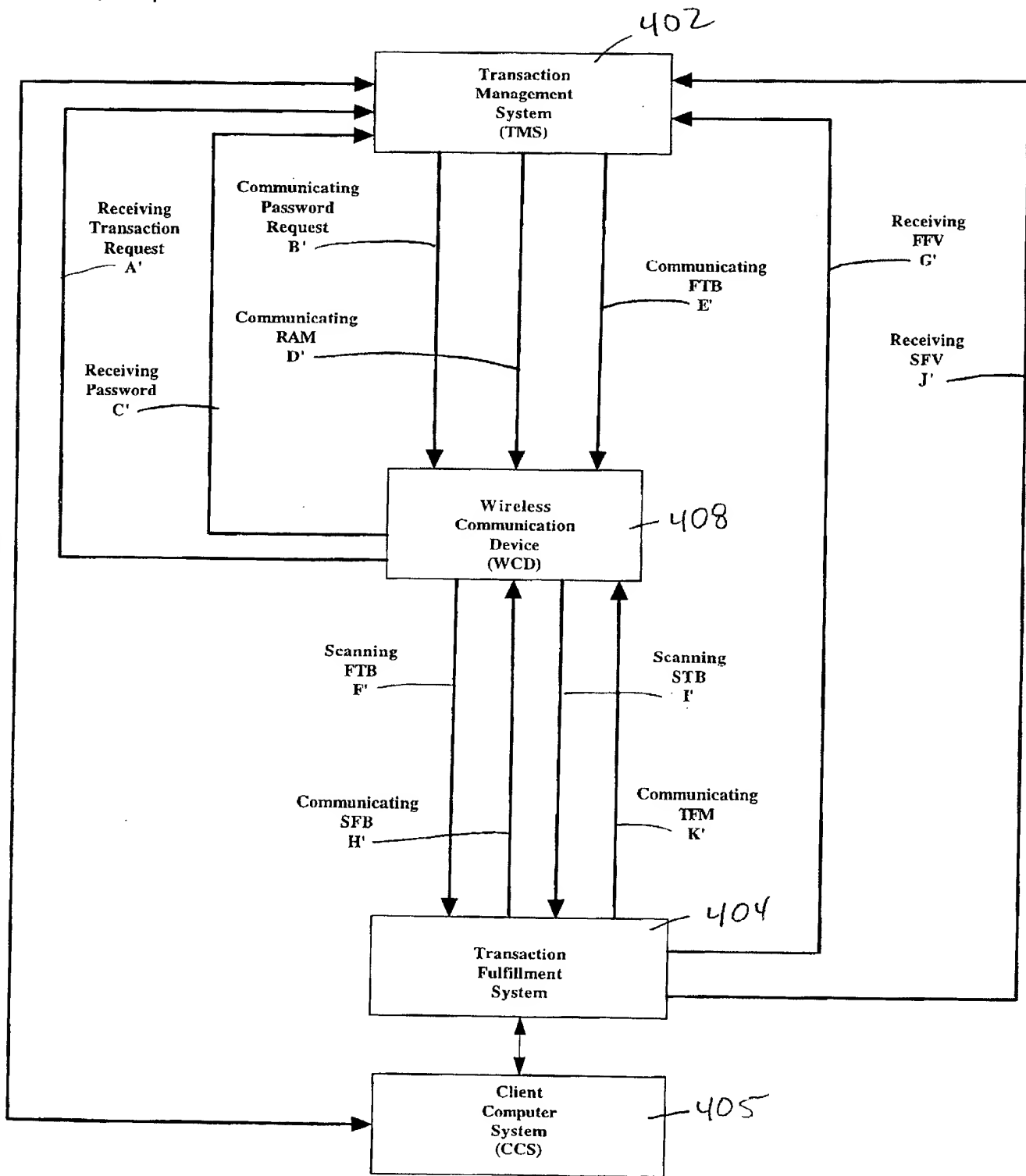




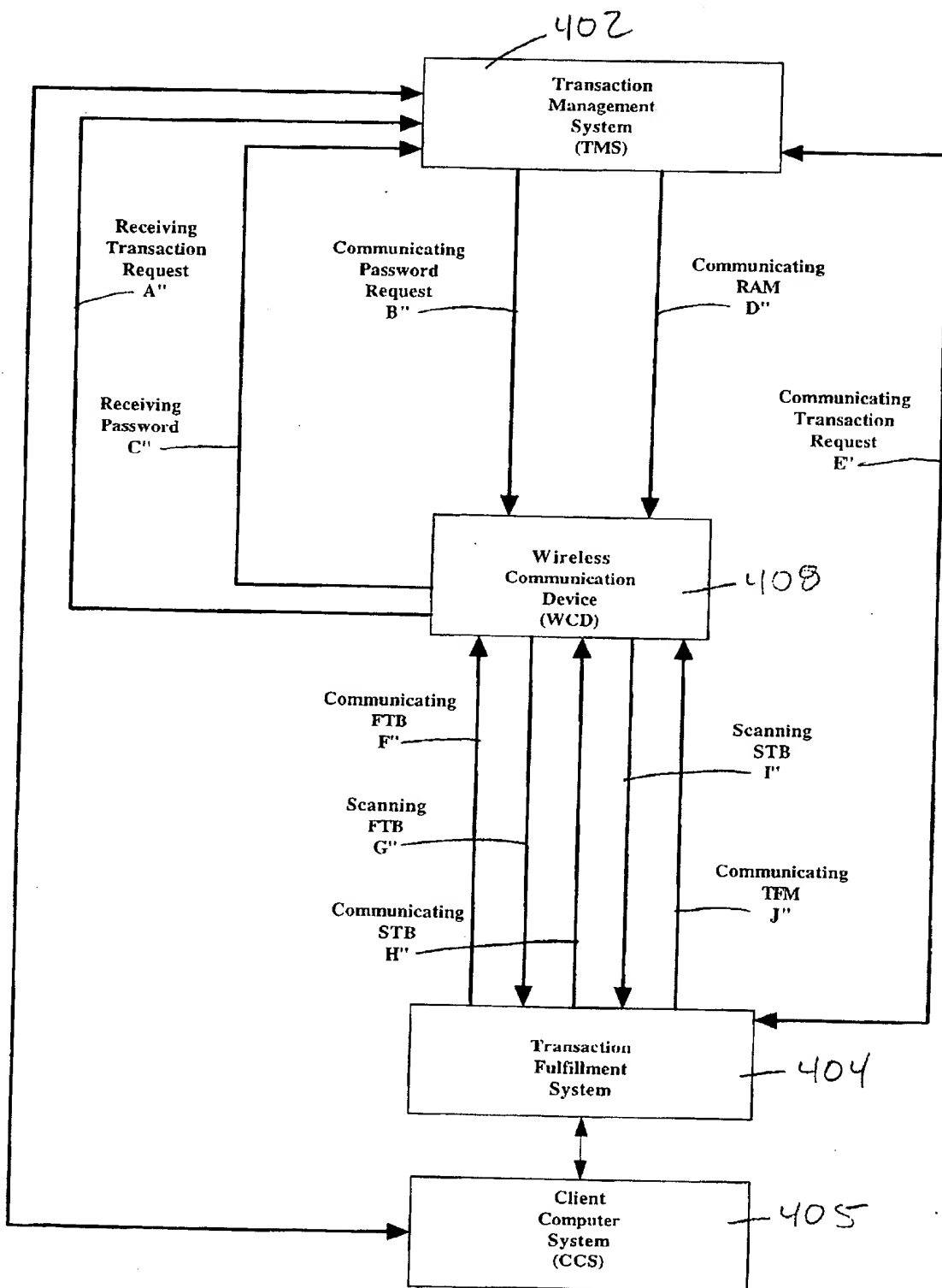


FIG. 9



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FIG. 10



00200212 104700